Figure 1: Block diagram of the MIMO AR model
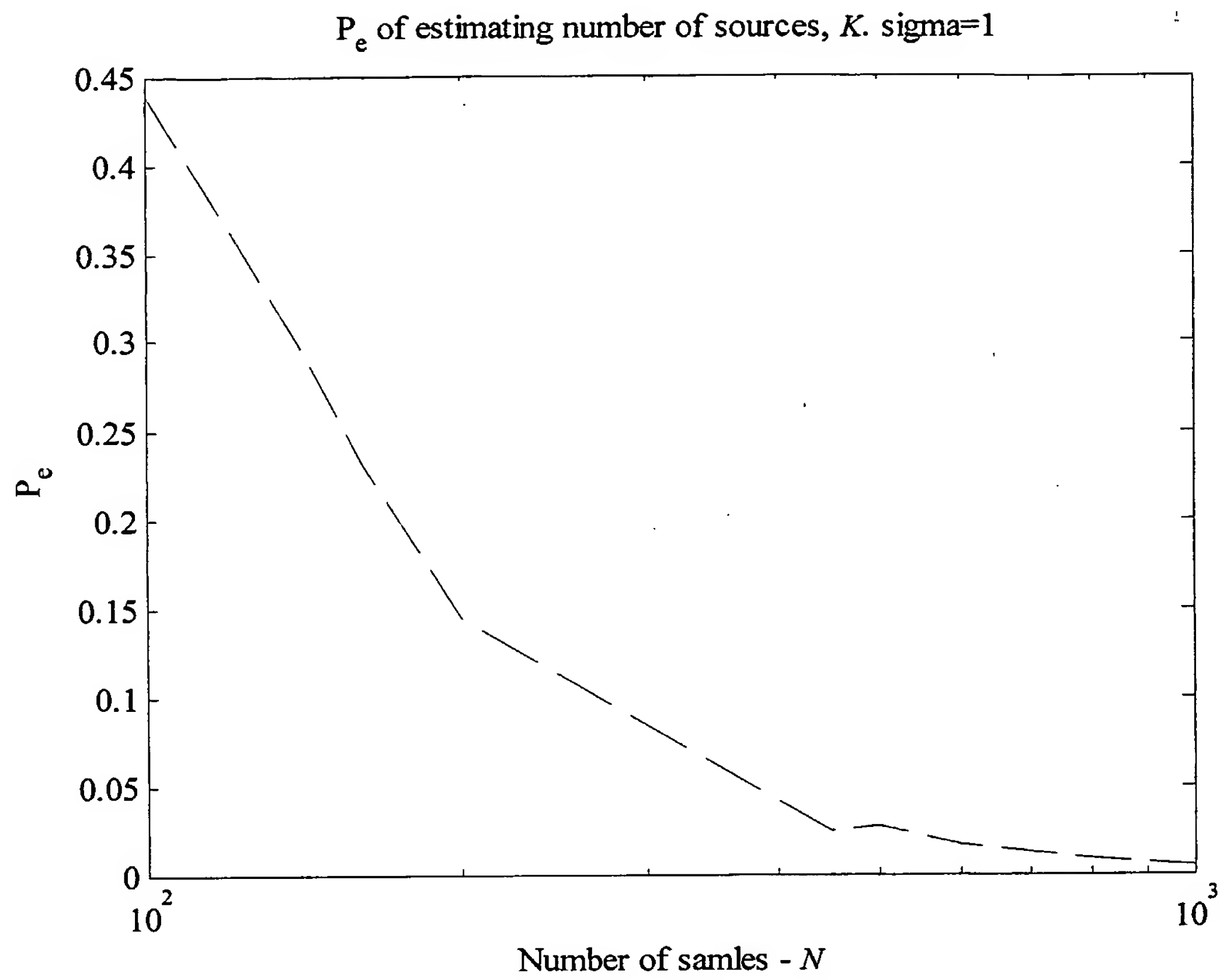
Figure 2: P_e of GLRT, coherent sources
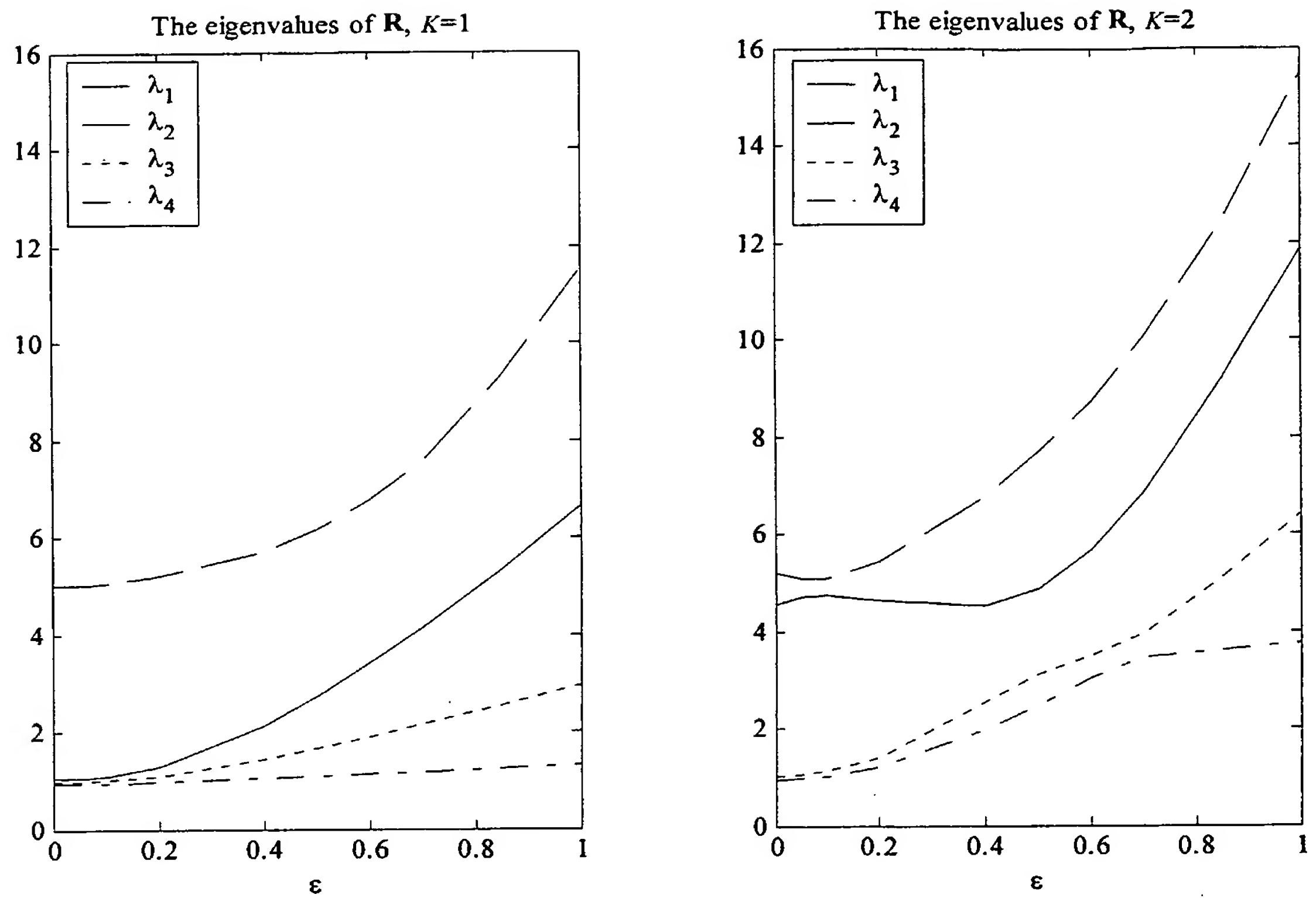
Figure 3: The eigenvalues of $\hat{\mathbf{R}}$ versus the scattering level, ε.
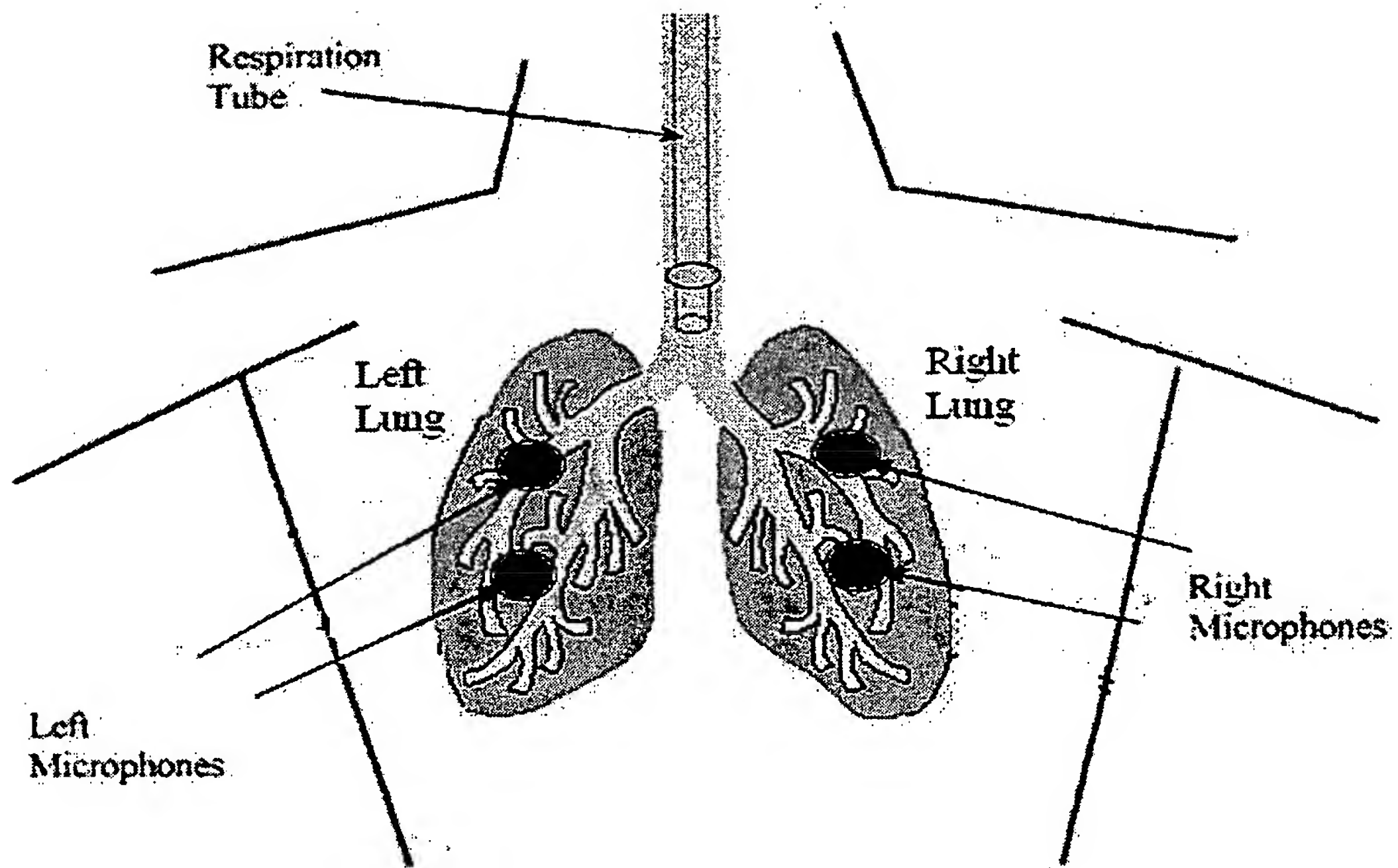
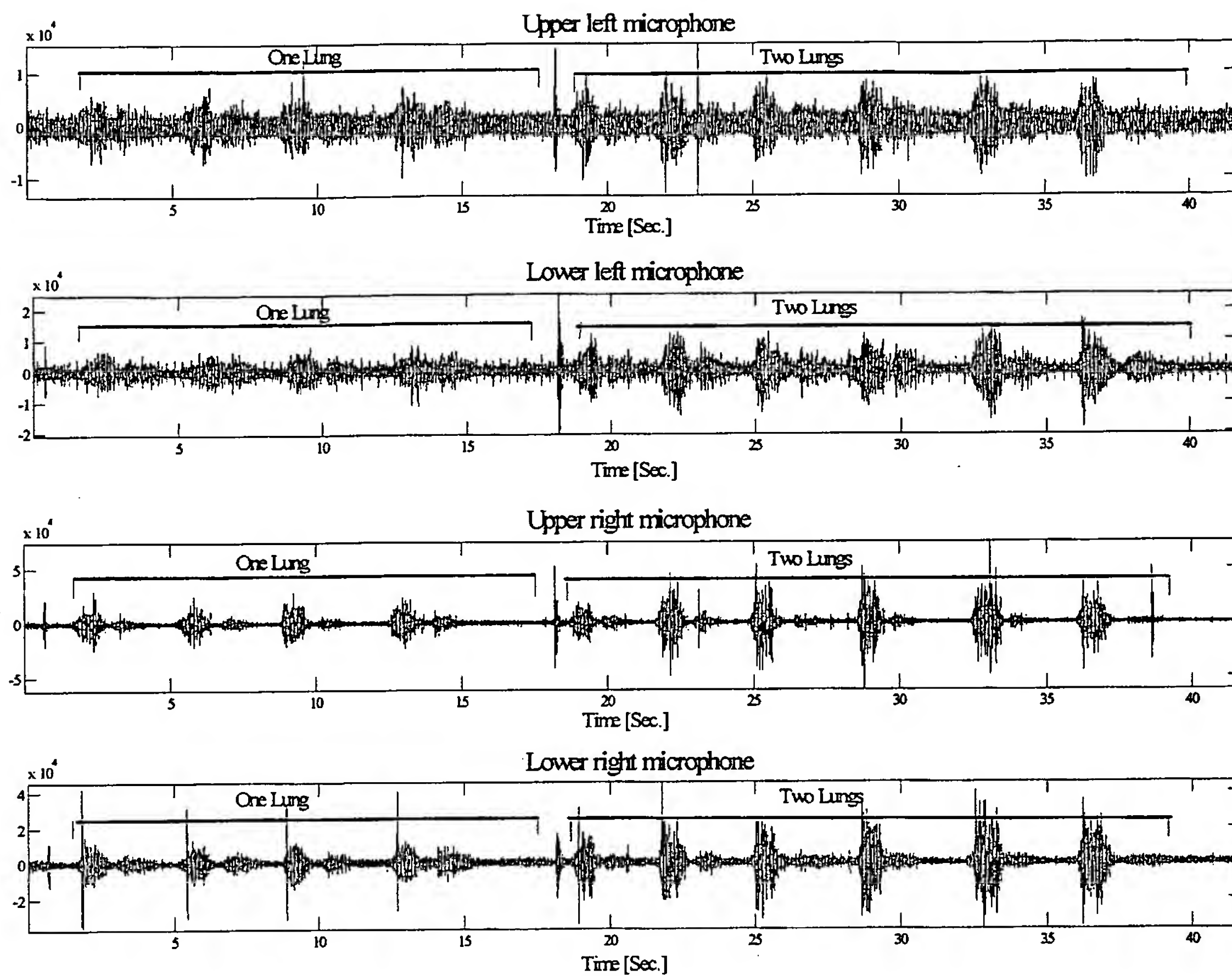**Figure 4:** Experimental set-up -- view from back (TRI shown)

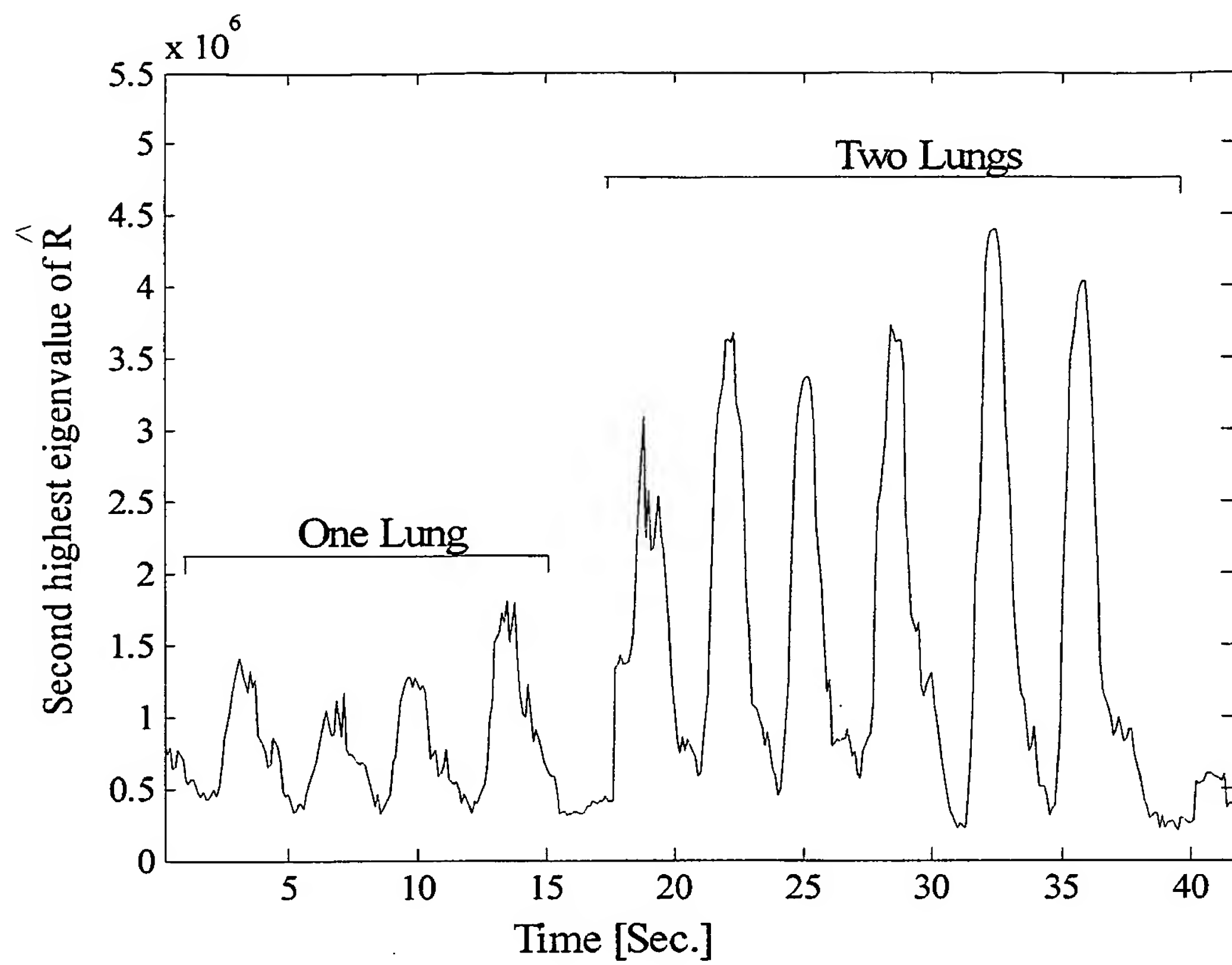**Figure 5:** Examples of the recorded signals – four microphones, OLI and TRI cases.

Figure 6: Second highest eigenvalue of $\hat{R}$ as a function of time.
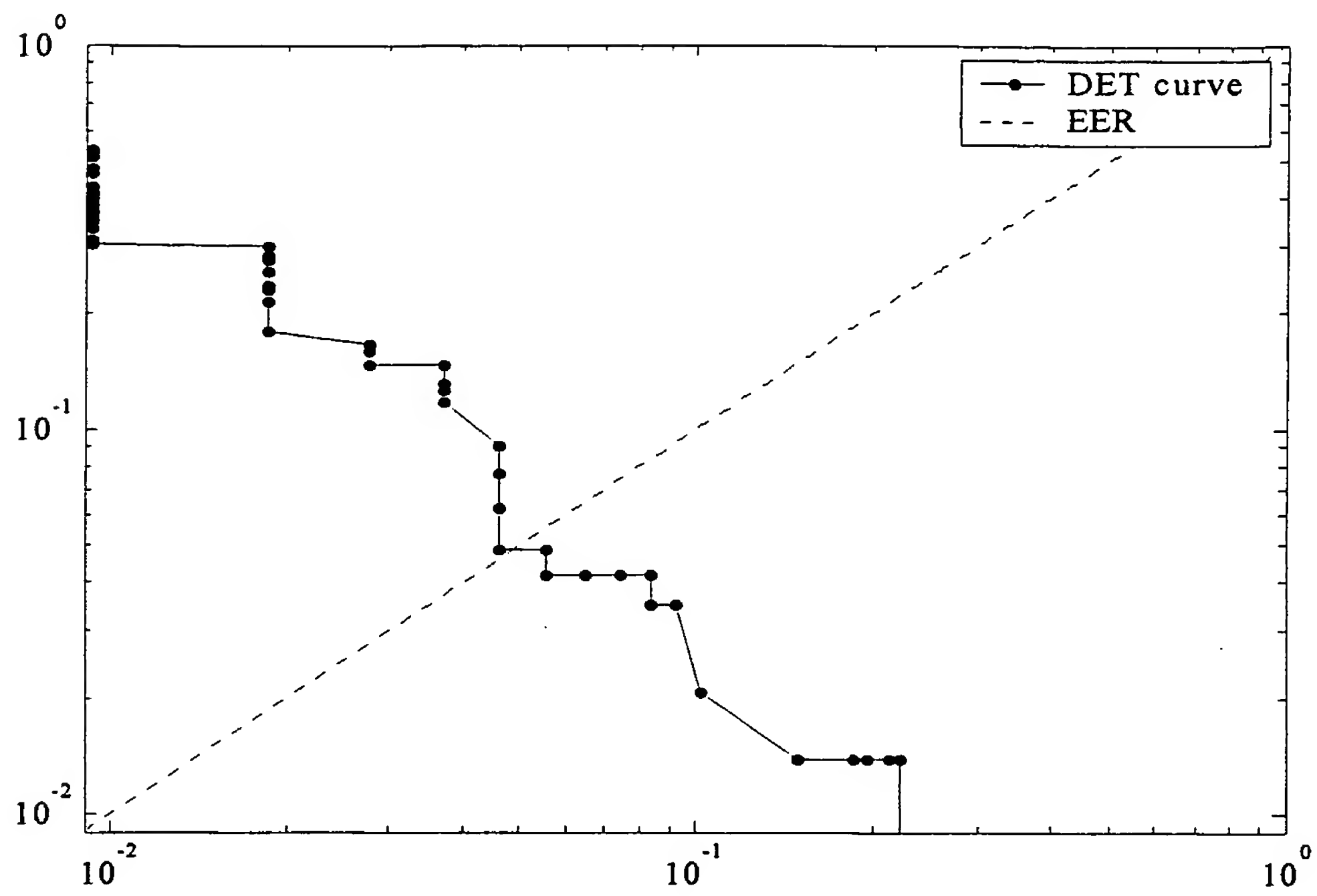
Figure 7: The DET of a detector based on the second highest eigenvalue of the estimated **R.**